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(folded or "stem loop" or "hairpin") primer

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A closed tube format for amplification and detection of DNA based on energy ...

IA Nazarenko, SK Bhatnagar, RJ ... - Nucleic Acids ... 1997 - Oxford Univ Press

... 4). The results show that after only 20 cycles, the fluorescence intensity increases five times compared to the non-amplified reaction mixture, and a 35-fold increase is detected after 40 cycles of amplification. ... Several **hairpin**-primers with variant sizes of **stem**, **loop** and 3 ...

Cited by 293 - Related articles - BL Direct - All 7 versions

Role of stem B, loop B, and nucleotides next to the primer binding site and the ...

N Shen, L Jette, MA Wainberg, M ... - The Journal of Virology, 2001 - jvi.highwire.org

... 3' of stem B. The **primer** binding site (PBS) and the gag gene are separated by 136 nt (the L sequence) which **fold** into stem B, loop B, the kln, and conceivably five other regions, such as nt 200 to 226, stem I, **stem-loop** A, the splice donor (SD) **hairpin**, and AAAUUUU-SL3 (Fig. ...

Cited by 19 - Related articles - BL Direct - All 5 versions

... bulge and loop of the trans-acting-responsive **hairpin**: a quantitative analysis.

B Berkhout, KT Jeang - Journal of virology, 1989 - Am Soc Microbiol

... terminal repeat (LTR) segment is present in all HIV-1 mRNAs and forms the upper half of an extended **stem-loop** RNA second ... The functional TAR **hairpin** must maintain a base-paired stem, although the actual sequence of the stem is not important ... **fold** (data are summarized in Fig ...

Cited by 133 - Related articles - All 6 versions

Real-time quantification of microRNAs by **stem-loop** RT-PCR

C Chen, DA Ridzon, AJ Broomer, Z Zhou, ... - Nucleic acids ... 2005 - Oxford Univ Press

... families of transcripts (18–25 nt in length) that are processed from larger **hairpin** precursors (1 ...

Stem-loop RT primers bind to at the 3' portion of miRNA molecules and are reverse transcribed with ... the dynamic range of miRNA expression varied greatly from less than 5-fold (let-7a ...

Cited by 601 - Related articles - BL Direct - All 36 versions

... virus type 1 RNA dimerization on viral infectivity and of **stem-loop** B on RNA ...

N Shen, L Jette, C Liang, MA Wainberg, M ... - The Journal of ... 2000 - jvi.highwire.org

... genomic RNA dimerization by 50% would reduce viral infectivity ~25-fold and at most 50-fold.

Stem-loop B mutation reduces proviral DNA production as much as DIS **hairpin** destruction ... In the hope of discovering why destruction of **stem-loop** B inhibits dimerization no more than ...

Cited by 51 - Related articles - BL Direct - All 6 versions

Evolution of a disrupted TAR RNA **hairpin** structure in the HIV-1 virus.

B Klaver, B Berkhout - The EMBO Journal, 1994 - pubmedcentral.nih.gov

... contains an extended **hairpin** structure at the 5' end (the TAR element) that is essential for viral replication. The upper part of the **stem-loop** structure binds the virally encoded transcriptional activator protein Tat and cellular co-factors, but no clear function for the lower stem region ...

Cited by 65 - Related articles - BL Direct - All 4 versions

Stem-loop oligonucleotides: a robust tool for molecular biology and biotechnology

NE Broude - TRENDS in Biotechnology, 2002 - Elsevier

... to target P-loops within duplex DNA, a strong match/mismatch discrimination (>20-fold) and fast ... PCR suppression (PS) is another approach based on the formation of **stem-loop** DNA constructs. ... in contrast to the molecular beacon approach, is designed to adopt a **hairpin** form. ...